Diversion Effects on Delta Smelt: No Action Conditions	melt: No	o Acti	on Con	ditions			WET Y	WET YEARS				
	Oct I	Nov	Dec	Jan	Feb	Mar	Apr	May	June July		Aug	Sep
Entrainment	٥	0	<u>-</u>	<u>.</u>	-2	-2	-1	-3	-2	ယ	-2	0
Hvdrodvnamics	0		7	ᅩ	-2	-2	-1	-3	-2	-3	-2	0
Predation	٥		<u>.</u>	스	· -1	<u>-</u>	<u> </u> -	-1	-1			0
Handling	0		0	0	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0		<u>.</u>	<u>-</u>	١-	1-	1-	<u>.</u>	0	0	0	0
Water quality (toxics)	٥		0	0	0	0	L -	-1	-1	<u>-</u>	<u>-</u>	0
Water quality (temperature)	0		0	0	0	0	0	0	0	0	0	0
WO (salinity)	0		0	<u>-</u> _	1-	0	0	0	0	-2	-2	7
Agricultural diversions	0	0	0	0	0	1-	<u> </u> -	-2	-2	-2	2	0
	ľ											

Diversion Effects on Delta Smelt: Common Programs	melt: C	ommo	n Prog	rams			WET Y	WET YEARS				
	Oct Oct	No.	Dec	1	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-1	-1	-1	-1	-1	చ	-2	'n	-1	0
Hydrodynamics	0	0	-1	-1	-1	-1	-1	<u>-</u> -	ځ	<u></u>	<u>-</u>	0
Predation	0	0	۲-	1-	스	-1	-1	-1	<u>ئـ</u>	ځ	-1	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	_1	1		1		2	2	2	1	_	_	
Shallow/ nearshore habitat	0	0	0	0	_		-	1	1	0	0	0
Water quality (toxics)	0	0	0	0	0	0	<u>-</u>	-1	-1	1-	<u>-</u>	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	0	0	0	0	0	0		ځ	<u> </u>
Agricultural diversions		1	1	1			_	2	2	2	2	

Diversion Effects on Delta Smelt: Alternative 1	smelt: A	lternati	ve 1			-	WET \	WET YEARS		,		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June July		Aug	Sep
Entrainment	0	0	-1	1-	-2	-2	-1	-3	-2	-3	-2	0
Hydrodynamics	0	0	-1	1-	-2	-2	1-	-3	-2	-3	-2	0
Predation	. 0	0	-1	1-	1-		<u> </u> -	1-	-1	1-	1-	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	1	0	0	0
Water quality (toxics)	0	0	0	0	0	0	<u> </u> -	-1	-1	1-	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-2	-2	-1
Agricultural diversions	1	1		1	1	0	0	1	2	2	2	_1

Diversion Effects on Delta Smelt: Alternative 2	melt: A	lternat	ive 2				WET Y	WET YEARS				
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June July		Aug	Sep
Entrainment	0	0	-2	-2	-2	-2	-2	-3	-2	-3	-2	0
Hydrodynamics	0	0	-2	-2	-2	-2	-2	-3	-2	-3	-2	0
Predation	0	0	-2	-2	-2	-2	-2	-3	-2	-3	-2	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	_	1	1	2	2	2	_1	1	1	1
Shallow/ nearshore habitat	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-2	-2	7
Agricultural diversions	1			1		0	0		2	2	2	_
									-			

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	Agricultural diversions	WQ (salinity)	Nater quality (temperature)	Water quality (toxics)	Shallow/ nearshore habitat	Food supply	Handling	Predation	Hydrodynamics	Entrainment		Diversion Effects on Delta Smelt: Alternative 3
	ins		erature)	s)	habitat				-			on Delta Si
	1	0	0	0	0	1	- 0	0	1	1	Oct	melt: A
	1	0	0	0	0		0	0		_	Nov	lternat
	1	0	0	0	_		0	0	-7	2	Dec	ive 3
	1	-1	0	0		_	0	0	2	2	Jan	
	1	-1	0	0	2	_	0	0	3	2	Feb	
	0	0	0	0	2	2	0	0	ω	2	Mar	
	0	0	0	-1	2	2	0	0	သ	ဒ	Apr	WET \
	1	0	0	-1	2	2	. 0	0	3	3	May	WET YEARS
	2	0	0	-	2	1	0	0		2	June	
	2	-2	0	-1	_	-1	0	0	1		July	
	2	-2	0	<u>-</u>	_		0	0		د	Aug	
	_	-1	0	0	0	_	0.	0	_		Sep	

Diversion Effects on Delta Smelt: Existing (Baseline) Conditions	melt: E	xisting	(Base	line) C	onditic	snc	DRY YEARS	EARS				
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	ənub	July	Aug	Sep
Entrainment	0	0	-1	1-	-1	-2	-2	-3	-3	-3	-2	0
Hydrodynamics	0	0	-1	١-	1-	-2	-2	-3	-3	-3	-2	0
Predation	0	0	-1	1-	1-	-2	-2	-3	-3	-3	-2	0
Handling	0	0	-1	-1	1-	-2	-2	-3	-3	-3	-2	0
Food supply	0	-1	-1	-1	-2	-3	-3	-3	-3	-3	-2	-1
Shallow/ nearshore habitat	0	0	-1	1-	1-	-1	-1	-1	0	0	0	0
Water quality (toxics)	-1	0	0	-1	-1	-1	-1	-1	-2	-2	-2	-1
Water quality (temperature)	0	0	0	0	0	. 0	0	0	0	0	0	0
WQ (salinity)	-1	-1	0	0	1	1	1	-1	-1	-1	-1	-1
Agricultural diversions	0	0	0	0	0	0	-2	-2	-3	-3	-2	0

	Agricultural diversions	WQ (salinity)	Water quality (temperature)	Water quality (toxics)	Shallow/ nearshore habitat	Food supply	Handling	Predation	Hydrodynamics	Entrainment		Diversion Effects on Delta Smelt: No Action Conditions
	0	<u>'</u>	0		0	0	0	0	0	0	Oct	melt: N
	0	<u>'</u>	0	0	0	-	0	0	0	0	Nov	lo Actio
	0	<u>.</u>	0	0		<u>'</u> 2	-2	-2	-2	-2	Dec	on Con
	0	<u>'</u>	0	<u>-</u>	77	'n	'n	-2	⊹	<u>-2</u>	Jan	ditions
	<u>-</u>	0	0	ᅩ	느	ż	⊹	⊹ 2	-2	-2	Feb	
	<u>'</u>	0	0		<u>-</u>	ယ	ယ်	င်	ι	-3	Mar	
	င်		0	-	<u>-</u> -	ယ	-2	-2	-\ <u>\</u>	-2	Apr	DRY YEARS
	ယ်		0	<u> </u>	<u>-</u>	-3	မ	ယ	င်	-3	May	EARS
	င္ပ	-1	0	-2	0	ω	မ	-3	-3	-3	June	
	င္ပ	<u>'</u>	0	-2	0	ယ်	ယ်	<u>ئ</u>	-3	ည်	July	
	-2	<u>-</u>	0	-2	0	-2	-2	-2	-2	-2	Aug	
	0	<u>-</u> -	0	그	0	<u>-</u>	0	0	0	0	Sep	

Predation 0 0 -1 -1 -2 -2 -3 -3 Handling 0 0 -1 -1 -1 -2 -2 -3 -3 Food supply 1 0 0 0 0 -1 -1 -1 -1 -1 -1 Shallow/ nearshore habitat 0 0 0 0 0 1 1 1 1 1 1 0 Water quality (toxics) 0 0 0 0 0 0 0 0 0 0 0 Water quality (temperature) 0 0 0 0 0 0 0 0 0 0 0 WQ (salinity) -1 -1 -1 1	Diversion Effects on Delta Smelt: Common ProgramsOctNovDecJanEntrainment00-1-Hydrodynamics00-1-	melt: C	Nov 0	Dec -1		Feb	Mar -2	DRY YEARS Apr May -2 -3 -2 -3		June -3	July Sign	Aug	ıg -2 Sep
0 0 -1 -1 -1 -2 -2 -3 1 0 0 0 0 -1 -1 -1 -1 0 0 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 2 2	Predation	0	0	١.	ے ۔	<u>.</u>	·2	ίĊ		ယ်		ယ်	
Food supply 1 0 0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 0 <td< td=""><td>Handling</td><td>0</td><td>0</td><td>-1</td><td>-1</td><td>-1</td><td>-2</td><td>-2</td><td></td><td>-3</td><td></td><td><u>ئ</u></td><td>-3 -2</td></td<>	Handling	0	0	-1	-1	-1	-2	-2		-3		<u>ئ</u>	-3 -2
Shallow/ nearshore habitat 0 0 0 0 1 1 1 1 1 1 0 Water quality (toxics) 0	Food supply	1	0	0	0	스	1-	-1	-1	-1			-1 -1
Water quality (toxics) 0 <td>Shallow/ nearshore habitat</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>. 0</td> <td></td> <td>0</td> <td>0 0</td>	Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	. 0		0	0 0
Water quality (temperature) 0	Water quality (toxics)	0	0	0	0	0	0	0	0	-1		-1	-1 -1
WQ (salinity) -1 -1 0 0 1 1 1 -1 -1 Agricultural diversions 1 1 1 1 1 1 1 2 2 2	Water quality (temperature)	0	0	0	0	0	0	0	0	0		- 0	0 0
Agricultural diversions 1 1 1 1 1 1 2 2 2 2		-1	-1	0	0	1	1		느	-1		-1	-1 -1
	Agricultural diversions	1	1	1	1	1	1	2	2	2		2	2 2

Diversion Effects on Delta Smelt: Alternative 1	melt: A	Iternativ	ve 1				DRY YEARS	EARS					
	Oct	Nov [Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	
Entrainment	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0	
Hydrodynamics	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0	
Predation	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0	
Handling	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0	
Food supply	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	0	0	0	0	
Water quality (toxics)	0	0	0	0	0	0	0	0	-1	-1	-1	. 0	
Water quality (temperature)	0	0	0	0	0	0	0	. 0	0	0	0	0	_
WQ (salinity)	-1	-1	-1	-1	0	0	1	-1	-1	-1	-1	-1	
Agricultural diversions	1	1		1	0	0	1	1	2	2	2		

Diversion Effects on Delta Smelt: Alternative 2	melt: A	lternat	ive 2				DRY Y	DRY YEARS				
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June July		Aug	Sep
Entrainment	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-2	0
Hydrodynamics	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-2	0
Predation	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-2	0
Handling	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-2	0
Food supply	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Shallow/ nearshore habitat	0	0	0	0	-1	-1	-1	-1	0	0	0	0
Water quality (toxics)	0	0	0	0	0	0	0	0	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	Ō	0	0	0
WQ (salinity)	-1	-1		-2	-1	-1	0	-2	-2	-1	<u>-</u> _	
Agricultural diversions			_	_	0	0			2	2	2	_

Diversion Effects on Delta Smelt: Alternative 3	melt: /	lterna	tive 3				DRY \	DRY YEARS				
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	1	. 1	1	1	2	2	3	3	2	1	1	-1
Hydrodynamics	1	1	0	0	0	-1	2	2	2	2	2	1
Predation	0	0.	0	0	0	1	1	1	1	1	_ 0	0
Handling	1	1	1	1	2	2	3	3	2	1	1	1
Food supply	1	0	-1	-1	-1	-1	-1	-1	-1	-1		0
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	1	1	1	0
Water quality (toxics)	0	0	0	0	0	0	0	0	-	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	-1	-1	-1	-3	-2	-2	-1	-3	-3	-2	-1	-1
Agricultural diversions	_	_	1	1	0	0	1	1	2	2	2	1

Net Effects Matricies with Common Programs included

Net Effects Matricies with Common Programs included No Action Conditions - Existing

WQ (salinity)

Agricultural diversions

No Action Conditions - Exis	sting						WET '	YEARS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	0	0	-1	-1	0	0	0	-1	-1	.0	-4
Hydrodynamics	0	0	0	0	-1	-1	0	-2	-1	-2	-1	0	-8
Predation	0	0	0	0	0	0	0	0	0	0	0	0	0
Handling	0	0	0	.0	0	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (toxics)	0	0	0	0	0	0	0	0	O	Ō	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	Ō	0	0	0

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Common Programs - Existing WET YEARS

Committee rogiums - Existi	פיי						***	1					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydrodynamics	0	0	0	0	0	0	0	0	0	0	O	_0	0
Predation	0	0	0	0	0	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1	15
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	1	0	0	0	11
Water quality (toxics)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	0	0	0	0	0	. 0	0	0	0	0
Agricultural diversions	1	1	1	1	1	1	1	3	4	4	4	1	23
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Net Effects Matricies with Common Programs included

Alternative 1 - Existing							WET 1	WET YEARS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	0	0	-1	-1	0	0	0	1-	1-	0	-4
Hydrodynamics	0	0	0	0	-1	-1	0	-2	-1	-2	-1	0	-8
Predation	0	0	0	0	0	0	0	0	0	0	0	. 0	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1	15
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	1	0	0	0	11
Water quality (toxics)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-1	-1	0	-4
Agricultural diversions	1	1	1	1	1	0	0	2	4	4	4	1	20

Alternative 2 - Existing							WET \	WET YEARS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July ·	Aug	Sep	Total
Entrainment	0	0	-1	-1			-1	0	0	-1	-1	0	-7
Hydrodynamics	0	0	-1	-1	-1	1	-1	-2	-1	-2	-1	0	-11
Predation	0	0	-1	-1	-1	1-	-1	-2	-1	-2	-1	0	-11
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	-1	1	1	1	1	2	2	2	1	1	1	1	15
Shallow/ nearshore habitat	0	0	1	1	1	1	1	1	0	0	0	0	6
Water quality (toxics)	0	0	0	0	0	0	0	0	0	0	0.	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	. 0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-1	-1	0	-4
Agricultural diversions	1	1	1	1	1	0	0	2	4	4	4	1	20

Alternative 3 - Existing							WET	WET YEARS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	1	1	3	3	3	3	4	6	4	. 3	2	1	34
Hydrodynamics	1	1	2	3	4	4	4	4	2	2	2	1	30
Predation	0	0	1	1	1	1	1	1	1	1	_	0	9
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1	15
Shallow/ nearshore habitat	0	0	2	2	3	3	3	3	2	1	1	0	20
Water quality (toxics)	0	0	0	0	0	. 0	0	0	Ö	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-	0	0	0	0	<u> </u>	<u> </u>	0	4
Agricultural diversions	1			1		0	0	2	4	4	4	_	20

No Action Conditions	Z
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	Net Effects Matricles with Common Programs included
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No Action Conditions - Existing	gan						באט	UKT TEAKU					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0.	0	-1	1-	-1	1-	0	0	0	0	0	0	-4
Hydrodynamics	0	0	1-	1-	-1	1-	0	0	0	0	0	0	-4
Predation	0	0	-1	1-	-1	-1	0	0	0	0	0	0	-4
Handling	0	0	-1	1-	-1		0	0	0	0	0	0	-4
Food supply	0	0	-1	-1	0	0	0	0	0	0	0	0	-2
Shallow/ nearshore habitat	0	0	0	.0	0	0	0	0	0	0	0	0	0
Water quality (toxics)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	. 0	0	-1	-1	-1	1-	0	0	0	0	0	0	-4
Agricultural diversions	0	0	0	0	-1	-1	-1	-1	0	0	0	0	-4
													,

Common Programs - Existing	ng						DRY Y	DRY YEARS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydrodynamics	0	0	0	0	0	0	0	. 0	0	0	0	0	0
Predation	0	0	0	0	0	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	2	2	1	1	17
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	0	0	0	0	10
Water quality (toxics)	-1	0	0	1	-	1	_	1	1	1	1	1	10
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	. 0	0	0	- 0	0	0	0	0	0	0	0	0
Agricultural diversions	1	1	-1	_1	1	1	4	4	5	5	4	1	29
Net Effects Matricies with Common Programs included	ommor	Progr	ame in	חשמ									

Net Effects Matricies with Common Programs included

Alternative 1 - Existing						-	DRY Y	DRY YEARS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0						0						1 -4
Hydrodynamics	0						0						
Predation	0						0						
Handling	0						0						
Food supply	1						2						
Shallow/ nearshore habitat	0						2						10
	1						1						
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	
WQ (salinity)	0						0						-4
Agricultural diversions	1						3						
Alternative 2 - Existing							DRY Y	EARS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Apr May	June	July	Aug	Sep	Total
Entrainment	0			-2	-2	-1	-1	0					
Hydrodynamics	0			7-	7-		1-				0		
Predation	0	0	-5	7-	7-	1-	-1	0	0	0	0	0	8-
Handling	0			-2	-2		-1				0		
Food supply	7			0	~		2				1		
Shallow/ nearshore habitat				1	0		0				0		
Water quality (toxics)	7			1			1				1		
Water quality (temperature)	0			0	0		0				0		
WQ (salinity)	0			-2	-2		-1			.	0		
Agricultural diversions	_			7	0		8				4		25
A PARTY OF THE PROPERTY OF THE													
Alternative 3 - Existing							DRY YEARS	EARS		,			
	Ö	Nov	Dec	lan	용	Mar	Apr	May	June	칅	Aug	Sep	
Entrainment	-	1	2	2	က	4	5	9	2	4	က	-	37
Hydrodynamics	-	7		Ì			4		5		4		
Predation	0	0			ļ		3		4		2		
Handling	1	1	2				5		5		3		
Food supply	7	1	0				2		2		7		
Shallow/ nearshore habitat	0	0	. 2				3		1		1		
Water quality (toxics)	7	0	0				7		_		7		
Water quality (temperature)	0	0	0				0		0		0		
WQ (salinity)	0	0	7				-2		-2		0		_
Agricultural diversions	1	1	-				3		2	•	4		25
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Iternativ	veNet Effects Mat	tricies WIT	HOUT Com	mon Progran	ns included		
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AlternativeNet Effects Matricies WITHOUT Common Programs included

(Alternative 1 - Common Programs) - Existing)grams)	- Exis	ting				WET	WET YEARS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	1	- 1	0	0	1	3	2	1	0	0	9
Hydrodynamics	0	0	1	1	0	0	1	1-	0	1-	0	0	1
Predation	0	0	1	1	_ 1	1	1	1	1	1	1	0	9
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	1	1	1	1	1	1	0	0	0	0	6
Water quality (toxics)	0	0.	0	0	0	0	1	1	1	1	1	0	5
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	0	0	1	
Agricultural diversions	0	0	0	0	0	-1	-1	0	2	2	2	0	4

(Alternative 2 - Common Programs) - Existing	ograms) - Exis	ting				WET Y	WET YEARS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	0	0	0	0	0	3	2	1	0	0	6
Hydrodynamics	0	0	0	0	0	0	0	-1	0	1-	0	0	-2
Predation	0	0	0	0	0	0	. 0		0	1-	0	0	-2
Handling	0	0	0	0	0	0	0	0	0	0	. 0	0	0
Food supply	0	0	0	0	0	0	0	0	. 0	0	0	0	0
Shallow/ nearshore habitat	0	0	1	1	0	0	0	0	-1	0	0	0	1
Water quality (toxics)	0	0	0	0	0	0	1	1	1	1	1	0	5
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0		-1	0	Ō	0	0	0	0	1	-1
Agricultural diversions	0	0	0	0	0	-1	-1	0	2	2	2	0	4

(Alternative 3 - Common Programs) - Existing	ograms) - Exis	sting				WET \	WET YEARS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	1	1	4	4	4	4	5	9	6	5	3	1	47
Hydrodynamics	1	1	3	4	5	5	5	5	3	3	3	1	39
Predation	0	0	2	2	2	2	2	2	2	2	2	0	18
Handling	0	0	0	0	0	0	0	0.	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0	. 0	0	0	0	0
Shallow/ nearshore habitat	0	0	2	2	2	2	2	2	1	1	1	0	15
Water quality (toxics)	0	0	0	. 0	0	0	1	1	1	1	1	0	5
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	0	0	1	<u>'</u>
Agricultural diversions	0	0	0	0	0	-1	-1	0	2	2	2	0	4

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AlternativeNet Effects M	atricies WI7	THOUT Common P	rograms in	cluded			
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AlternativeNet Effects Matricies WITHOUT Common Programs included

(Alternative 1 - Common Programs) - Existing	grams)	- Exis	ting				DRY	DRY YEARS				•	,
	Oct	Nov		Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	0	0	0	1	2	3	3	3	2	0	14
Hydrodynamics	0	0	0	0	0	1	2	3	3	3	2	0	14
Predation	0	0	0	0	0	1	2	3	3	3	2	0	14
Handling	0	0	0	0	0	. 1	2	3	3	3	2	0	14
Food supply	0	1	0	0	2	3	3	3	3	3	2	1	21
Shallow/ nearshore habitat	0	0	_	1	>	1	1	1	0	0	0	0	ဝ
Water quality (toxics)	1	0	0	1	1	1	1	1	2	2	2	1	13
Water quality (temperature)	. 0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	1	1		느	-2	-2	-1	_	_	_	_	_1	0
Agricultural diversions	0	0	0	0		· <u>·</u>		_	ω ω	ယ	2	0	_∞

	Agricultural diversions	WQ (salinity)	Water quality (temperature)	Water quality (toxics)	Shallow/ nearshore habitat	Food supply	Handling	Predation	Hydrodynamics	Entrainment		(Alternative 2 - Common Programs) - Existing
	0	1	0		0	0	0	0	0	0	Oct	grams
	0		0	0	0	1	0	0	0	0	Nov	- Exis
	0	-	0	0	山	0	-1		-1	-1	Dec	ting
	0	-2	0			0	<u>'</u>	-1	7	<u> </u>	Jan	
	<u>-</u>	မ	0		<u>.</u>	2	-1		-1	-	Feb	
	ᅩ	占	0		<u>'</u>	ဒ	_	1	1		Mar	
		-2	0		<u>.</u>	ω	1	1	-1		Apr	DRY YEARS
		0	0		<u>'</u>	3	သ	3	3	ယ	May	EARS
	ω	0	0	N	0	ယ	ω	သ	ပ	ω	June	
	ပ	_	0	2	0	3	3	3	3	3	July	
	2		0	2	0	2	2	2	2	2	Aug	
	0	1	0	_	0	1	0	0	0	0	Sep	
	<u>∞</u>	ხ	0	13	'n	21	10	10	10	6	Total	

Alternative 3 - Existing							DRY)	DRY YEARS					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	1	1	3	3	4	6	7	9	8	7	5	_	55
Hydrodynamics	1	1	2	2	2	3	6	8	8	8	6	1	48
Predation	0	0	2	2	2	5	5	7	7	7	4	0	41
Handling	1	1	3	3	4	6	7	9	8	7	5	1	55
Food supply	0	1	0	0	2	3	3	3	3	3	2	1	21
Shallow/ nearshore habitat	0	0	2	2	2	2	2	2	1	1	1	0	15
Water quality (toxics)	1	0	0		1	1	1	1	. 2	2	2	1	13
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	1	1	-1	-3	-4	-4	-3	-1	-1	0	1	1	-13
Agricultural diversions	0	0	0	0	-1	-1	1	_	3	3	2	0	8

Diversion Effects on Delta Smelt	elt - Ex	t - Existing (Baselin	(Baseline) Conditions	ditions		WET Y	YEARS			
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug
Entrainment	0	0	-1	-1	-1	-1	<u> </u> -1	-3	-2	-2	-1
Hydrodynamics	0	0	1-	-1	-1	-1	1-	-1	-1		-1
	2	2									

0	-2	-2	-2	<u> </u>	0	0	0	0	0	0	0	Agricultural diversions
-1	-1	-1	0	0	0	0	0	0	0	0	0	WQ (salinity)
0	0	0	0	0	0	. 0	0	0	. 0	0	0	Water quality (temperature)
0	-1	-1	-	占	-1	0	0	0	0	0	0	Water quality (toxics)
0	0	. 0	0	느	-1	-1	-1		<u>-</u>	0	0	Shallow/ nearshore habitat
0	0	0	0	0	0	0	0	0	0	0	0	Food supply
0	0	0	0	0	0	0	0	0	0	0	0	Handling
0		-1	-1		-1	<u>_</u>	-1	-		0	0	Predation
0	7	<u>'</u>	-1	<u>.</u> _	-1	<u>-</u> -	-1		<u>.</u>	0	0	Hydrodynamics
0	-1	-2	-2	-3	-1		-1		<u>.</u>	0	0	Entrainment
Sep	Aug	July	June	May	Apr	Mar	Feb	Jan	Dec	Nov	Oct	

Diversion Effects on Delta Sme	smelt - No Action Cond	Action	ction Conditions	tions	(NA-EXI	(IST)	WET	YEARS				
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	S
Entrainment	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2	
Hydrodynamics	0	0	1-	1-	-2	2-	1-	-3	-2		-2-	

_	_	_	_	_	_	_	_	_	_		-		
		Agricultural diversions	WQ (salinity)	Water quality (temperature)	Water quality (toxics)	Shallow/ nearshore habitat	Food supply	Handling	Predation	Hydrodynamics	Entrainment		Diversion Effects on Delta Smelt - Alternative '
	,	1	0	0	0	. 0	1	0	0	0	0	Oct	elt - Alt
		1	0	0	0	0	1	0	0	0	0	Nov	ernativ
		1	0	0	0	0	1	0	-1	-1		Dec	e 1
		1	-1	0	0	0	1	0	-1	-1	-1	Jan	
		1	<u>ا</u> ــ	0	0	_	_	0		-2	-2	Feb	
		0	0	0	0	1	2	0	-1	-2	-2	Mar	
		0	0	0	1	1	2	0	-1	-1	-1	Apr	WET \
		1	. 0	0	-1	1	2	0	-1	-3	-3	May	WET YEARS
		2	0	0	-1	1	1	0	-1	-2	-2	June	
		2	-2	0	-1	0		0	7	-3	-3	July	
		. 2	-2	0		0	\	0	-	-2	-2	Aug	
		-1	-1	0	0	0	اد	0	0	0	0	Sep	
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DIVERSION EMECIS ON DELIC SIMEN - AMERICANA 2	EL - VI	lemany	α 				× 1	VVET YEARO				
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment							•					
Hydrodynamics												
Predation												
Handling		-										
Food supply												
Shallow/ nearshore habitat												
Water quality (toxics)												
Water quality (temperature)												
WQ (salinity)												
Agricultural diversions												
Diversion Effects on Delta Smelt - Alternative 3	ieit - All	ernauv	G				 - -	VVET YEARO				
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment						_						
Hydrodynamics											-	
Predation												
Handling												
Food supply								1				
Shallow/ nearshore habitat		* *										
Water quality (toxics)												
Water quality (temperature)												
WQ (salinity)												
Agricultural diversions												
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Smelt - Existing (Bas	
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Diversion Effects on Delta Smelt - Existing (Baseline) Conditions	
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Oct Nov	melt - Existing (Baseline) Conditions
Nov Dec Jan Feh	Baseline
Jan	e) Conc
	ditions
Mar	
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Apr	VET \
May	VET YEARS
May	WET YEARS
	VET YEARS

Agricultural diversions	WQ (salinity)	Water quality (temperature)	Water quality (toxics)	Shallow/ nearshore habitat	Food supply	Handling	Predation	Hydrodynamics	Entrainment		Diversion Effects on Delta Smelt - Existing (Baseline) Conditions
0	0	0	0	0	0	0	0	0	0	Oct	melt - Ex
0	0	0	0	0	0	0	0	0	· 0	Nov	isting (B
0	0	0	0	<u>.</u>	0	0	-1	7	<u>-</u>	Dec	aseline
0	0	0	0	<u>-</u>	0	0	-1	<u>'</u>	<u>.</u>	Jan) Conc
0	0	0	0	<u>'</u>	0	0	-1	<u>'-</u>	느	Feb	litions
0	0	0	0	-1	0	0	<u>-</u> _	<u>.</u>	<u>.</u>	Mar	
0	0	0	-1	<u>'</u>	0	0	<u></u>	<u>.</u>	<u>.</u>	Apr	WET
<u>-</u>	0	0	7	<u>.</u>	0	0	<u>.</u>	-1	<u>ئ</u>	May	WET YEARS
2	0	0	7	0	0	0	<u>.</u>	<u>-</u>	-2	June	
'n	<u>.</u>	0	7	0	0	0	<u>-</u>	7	ż	July	
2	7	0	7	0	0	0	<u>'</u>	<u>-</u>	7	Aug	

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		Agricultural diversions	WQ (salinity)	Water quality (temperature)	Water quality (toxics)	Shallow/ nearshore habitat	Food supply	Handling	Predation	Hydrodynamics	Entrainment		Diversion Effects on Delta Smelt - No Action Conditions
		0	0	0	0	0	0	0	0	0	0	Oct	nelt - No
		0	0	0	0	0	0	0	0	0	0	Nov	Action
		0	0	0	0	-1	0	0	-1	-1	-1	Dec	Conditi
		0	-1	0	0		0	0	<u>-</u> _	7	-1	Jan	ons
,		0	-1	0	0	-1	0	0	-1	-2	-2	Feb	(NA-EXISI
		-1	0	0	0	-1	0	0		<u>-2</u>	-2	Mar	
		-	0	0	-1	-1	0	0			<u>'</u>	Apr	WEIY
	,	-2	0	0	-1	-1	0	0	-1	-3	-3	May	WEI YEARS
		-2	0	0	-1	0	0	0	-1	-2	-2	June	
		-2	-2	0	-1		0	0	-1	ن ى	- 5	July	
		-2	-2	0	-7	0	0	0	<u></u>	-2	-2	Aug	

Diversion Effects on Delta Smelt - Common Programs	alt - Co	mmon	Prograi	ns			WET	VET YEARS			
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug
Entrainment	0	0	1-	-1	-1	-1	-1	-3	-2	-2	-
Hydrodynamics	0	0	-1	1-	-1	-1	-1	-1	-1	-1	
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1
Handling	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	-1
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	1	0	0
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	<u>-</u>
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	0	0	0	0	0	0	-1	
Agricultural diversions		1	1	-	7		1	2	2	2	2

Diversion Effects on Delta Smelt - Alternative 1

WET YEARS

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		Agricultural diversions	WQ (salinity)	Water quality (temperature)	Water quality (toxics)	Shallow/ nearshore habitat	Food supply	Handling	Predation	Hydrodynamics	Entrainment	
		1	0	0	0	0	1	0	0	0	0	Oct
		1	0	0	0	0	1	0	0	0	0	Nov
		1	0	0	0	0	1	0	<u></u>	<u>.</u>	-1	Dec
		1	-1	0	0	0	1	0	-1	-1	-1	Jan
		1	-1	0	0	1	1	0	-1	-2	-2	Feb
		0	0	0	0	1	$\overline{2}$	0	-1	-2	-2	Mar
		0	. 0	0	-1	1	2	0	-1	-1	-1	Apr
		1	0	0	<u>.</u>	_	2	0		<u>ئ</u>	ن	May
		2	0	0	ند	_		0	<u> </u>	-2	έ	June
		2	-2	0	_ 	0	1	0		-3	-3	July
		2	-2	0	<u> </u>	0	1	0	<u>-</u>	-2	<u>5</u>	Aug

		Agricultural diversions	WQ (salinity)	Water quality (temperature)	Water quality (toxics)	Shallow/ nearshore habitat	Food supply	Handling	Predation	Hydrodynamics	Entrainment		Diversion Effects on Delta Smelt - Alternative 2
												Oct	nelt - Al
												Oct Nov Dec	ternativ
												Dec	/e 2
_												Jan	•
		-				_						Feb	
		_										Mar	
								-					WET
	-											May	WET YEARS
		-		-								Apr May June July	,
												Aug	

Diversion Effects on Delta Smelt - Alternative 3	nelt - Ali	ternativ	е 3				WET	WET YEARS		,	
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June July	ļļ	Aug
Entrainment											
Hydrodynamics											
Predation											
Handling											
Food supply											
Shallow/ nearshore habitat											
Water quality (toxics)											
Water quality (temperature)											
WQ (salinity)											
Agricultural diversions											

	_	<u>-</u> _	0	0	0		0	0	0	0	Sep			0	느	0	0	0	0	0	0	0	0	Sep			0	اد	9	0	0	0	0	0	0	0	Sep	
	Agricultural diversions	WQ (salinity)	Water quality (temperature)	Water quality (toxics)	Shallow/ nearshore habitat	Food supply	Handling	Predation	Hydrodynamics	Entrainment		Diversion Effects on Delta Smelt -		Agricultural diversions	WQ (salinity)	Water quality (temperature)	Water quality (toxics)	Shallow/ nearshore habitat	Food supply	Handling	Predation	Hydrodynamics	Entrainment		Diversion Effects on Delta Smelt - No Action Conditions		Agricultural diversions	WQ (salinity)	Water quality (temperature)	Water quality (toxics)	Shallow/ nearshore habitat	Food supply	Handling	Predation	Hydrodynamics	Entrainment		Diversion Effects on Delta Smelt - Existing (Baseline) Conditions
L	_	-1	0	0	0	1	0	0	0	0	Oct	elt - Co		0	-1	0	<u>ا</u> د	0	0	0	0	0	- 1	Oct	¥ - No		0	<u>.</u>	0	ᅶ	0	0	0	0	0		Oct	¥-Ex
	1	1-	0	0	0	0	0	0	0	0	Nov	mmon		0	1-	0	0	0	<u></u>	0	0	0	0	Nov	Action		0	<u>-</u>		0	0	1-	0	0	0	0	Nov	isting (
	1	0	0	0	0	0	-7		<u>.</u>	-1	Dec	Common Programs		0	-1	0	0	-1	'n	-2	-2	-2	-2	Dec	Condit		0			0	-1	-1	-1	-1	-1	-1	Dec	3aselin
	1		0	0	0	0	<u> </u>	<u> </u>	7	7	Jan	ms		0	-1	0	-1		-2					Jan	lions		0				-1	-1	-1	-1	-1	-1	Jan	e) Con
		,	0	0	<u> </u>	-1	<u>.</u>	_	-7	1	Feb			١	0	0	-1		-2			-2		Feb			0		0			-2	-1	-1		-,	Feb	ditions
		-	0		_	-7		-2		<u> </u>	Mar				0	0	-1		-3					Mar					0	1-1	-1		-2				Mar	
	1			0		7	2 -2		2 -2		Apr	DRY		-3			1 -1		-3			3 -2		Apr	DRY		0 -2			1 -1			2 -2				Apr	DRY
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